Advanced Technologies of the YORK® YZ Chiller

Capacity Control Logic
Patented YORK® control technology provides rapid response to the load on the building, ensuring the YZ does not waste energy or work harder than needed.

Variable-Speed Drive
The YZ, with VSD standard, as well as variable geometry diffuser and magnetic bearing technology, delivers up to 35% annual energy savings versus traditional fixed-speed oil bearing chillers.

OptiView™ Control Panel with Connected Services
Offers over 100 setpoints, readouts, alerts, trending reports and more. Data can also be securely connected to analytics platform for remote monitoring and predictive diagnostics.

Magnetic Bearing Driveline
Offers outstanding reliability and 80% fewer moving parts than traditional oil- or refrigerant-lubricated drivelines.

Optimized Compressor
Optimized, single-stage design enables YORK® chillers to provide best real-world energy efficiency and the widest operating range at off-design conditions.

High-Speed Hermetic Induction Motor
The YZ will be the first magnetic bearing centrifugal chiller to utilize reliable, robust, and low-maintenance induction motors.

Falling Film Evaporator
Reduces refrigerant charge up to 60% and reduces evaporator shell size up to 20% compared to other flooded, low-pressure refrigerant designs.

Low-Pressure Chiller
Building upon decades of experience, the YZ has been fully optimized around R-1233zd, which has a GWP of 1.
The YORK® YZ chiller from the chiller experts is the industry’s first chiller fully optimized for ultimate performance with a next generation low-GWP refrigerant, offering exceptional efficiency and operation.

From the Chiller Experts
The YORK® YZ chiller is a revolutionary advancement that challenges everything about conventional chiller design. Built upon decades of industry-leading chiller expertise, our engineers questioned every component, analyzed every function and challenged every assumption.

Optimized for Ultimate Performance
The design premise for the YORK® YZ was simple: don't just make a new chiller – make the best chiller. This was accomplished through a holistic approach to system design and engineering, optimizing every component around a carefully selected next generation refrigerant for ultimate performance.

Dramatically Lower Cost of Ownership
To maximize value, the YORK® YZ design has been optimized to minimize operating costs by leveraging the benefits of a new refrigerant in our new heat exchangers and motor/compressor driveline while also mitigating the high cost of a next generation refrigerant.

The New Definition of Sustainability
True sustainability means the lowest total emissions – from beginning to end. Adapting a chiller design to a new refrigerant is not enough. That's why the YORK® YZ was specifically designed to maximize the potential energy efficiency of a low-GWP refrigerant. Our design optimization for the highest possible efficiency, combined with a low-GWP refrigerant, makes the YORK® YZ Centrifugal Chiller the best choice for the environment.

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